

11-1131



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PATENT TRADEMARK OFFICE

Patent
Case No.: 57210US002



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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GROUP 1700

First Named Inventor: CARPENTER, JAMES B.
Application No.: 10/028838 Group Art Unit: 1731
Filed: December 20, 2001 Examiner: Not Yet Known
Title: APPARATUS FOR SELECTIVE PHOTOSENSITIZATION OF OPTICAL FIBER

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, DC 20231

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on:

April 22, 2003

Date

Signed by: Tom Sanders

Dear Sir:

Pursuant to 37 CFR §§ 1.56, 1.97, and 1.98, enclosed is a completed Form PTO-1449 citing references submitted for consideration by the Examiner. A copy of each cited reference is also enclosed. It is respectfully requested that the Examiner initial and return the enclosed Form PTO-1449 to indicate that each reference has been considered.

Under 37 CFR § 1.97(e)(1), I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement.

A copy of the Search Reports from foreign counterpart applications are enclosed.

It is believed that no fee is due; however, in the event a fee is required, please charge the fee to Deposit Account No. 13-3723.

Respectfully submitted,

April 22, 2003

Date

By:

Alan Ball

Alan Ball, Reg. No.: 42,286

Telephone No.: (512) 984-5258

Office of Intellectual Property Counsel
3M Innovative Properties Company
Facsimile No.: 651-736-3833

Substitute for form 1 (JAN 1997) (modified)

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets if necessary)

Page 1 of 1

Application Number

10/028838

Filing Date

December 20, 2001

First Named Inventor

Carpenter, James B.

Art Unit

1731

Examiner Name

Not Yet Known

Attorney Case Number

57210US002

U.S. Patent Documents

Exam Init *	Cite No	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
	A1	US- 4,891,640	01-02-1990	lp	
	A2	US-			
	A3	US-			
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			

Foreign Patent Documents

Exam. Init *	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-Kind Code (If known)				
	B1	JP	57029013	02-16-1982			
	B2	JP	08286054	11-01-1996			
	B3	JP	2001013333	01-19-2001			
	B4	EP	0805365 A2	11-05-1997			X
	B5						
	B6						
	B7						

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Exam. Init *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
	C1	D.S. STARODUBOV, et al; "Efficient Bragg Grating Fabrication in a Fibre Through Its Polymer Jacket Using Near-UV Light", <i>Electronics Letters</i> (17 July 1997); Vol. 33, No. 15; pp. 1331-1333
	C2	P.J. LEMAIRE, et al; "High Pressure H ₂ Loading as a Technique for Achieving Ultrahigh UV Photosensitivity and Thermal Sensitivity in GeO ₂ Doped Optical Fibres", <i>Electronics Letters</i> (27 June 1993); Vol. 29, No. 13; pp. 1191-1193
	C3	LEMAIRE, P.J.; "Enhanced UV Photosensitivity in Fibers and Waveguides by High-Pressure Hydrogen Loading", <i>OFC '95 Technical Digest</i> , New York (Feb. 26-Mar. 5, 1995); Wed. Afternoon; pp. 162-163

*Examiner:

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 57210W0006	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 02/ 40962	International filing date (day/month/year) 19/12/2002	(Earliest) Priority Date (day/month/year) 20/12/2001
Applicant: 3M INNOVATIVE PROPERTIES COMPANY		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

1a-c - -

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/40962

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G02B6/16 C03C25/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02B C03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX, IBM-TDB, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 6 146 713 A (CULLEN THOMAS J ET AL) 14 November 2000 (2000-11-14) the whole document	1-3,6-25
Y	---	4,5, 26-28
Y	LEMAIRE P J: "ENHANCED UV PHOTOSENSITIVITY IN FIBERS AND WAVEGUIDES BY HIGH-PRESSURE HYDROGEN LOADING" OPTICAL FIBER COMMUNICATION. SUMMARIES OF PAPERS PRESENTED AT THE CONFERENCE OF '95. SAN DIEGO, FEB. 26 - MAR. 3, 1995, NEW YORK, IEEE, US, 1995, pages 162-163, XP000669782 ISBN: 0-7803-2654-7 the whole document	4,5
A	---	1,14,16, 21
	--- -/--	

☒ Further documents are listed in the continuation of box C

☒ Patent family members are listed in annex

* Special categories of cited documents

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *F* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *I* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *G* document member of the same patent family

Date of the actual completion of the international search

1 April 2003

Date of mailing of the international search report

10/04/2003

Name and mailing address of the ISA

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Fax: (+31-70) 340-3015

Authorized officer

Wolf, S

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/40962

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	LEMAIRE P J ET AL: "HIGH PRESSURE H2 LOADING AS A TECHNIQUE FOR ACHIEVING ULTRAHIGH UV PHOTOSENSITIVITY AND THERMAL SENSITIVITY IN GEO2 DOPED OPTICAL FIBRES" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 29, no. 13, 24 June 1993 (1993-06-24), pages 1191-1193, XP000374245 ISSN: 0013-5194 the whole document	1, 14, 16, 21
Y	STARODUBOV D S ET AL: "Efficient Bragg grating fabrication in a fibre through its polymer jacket using near-UV light" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 33, no. 15, 17 July 1997 (1997-07-17), pages 1331-1333, XP006007731 ISSN: 0013-5194 the whole document	26-28
X	EP 0 805 365 A (FUJIKURA LTD) 5 November 1997 (1997-11-05)	14
A	page 4, line 46 -page 9, line 54; figures 1-4	1-13, 15-28
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03, 31 March 1997 (1997-03-31) -& JP 08 286054 A (SUMITOMO ELECTRIC IND LTD), 1 November 1996 (1996-11-01) abstract; figures 1-3 paragraphs '0035!-'0048!	1, 14
A	US 6 311 524 B1 (BRENNAN III JAMES F ET AL) 6 November 2001 (2001-11-06) cited in the application the whole document	1-28

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/40962

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6146713	A	14-11-2000	AU 3772400 A	09-10-2000
			EP 1163546 A1	19-12-2001
			WO 0057225 A1	28-09-2000
			US 6327406 B1	04-12-2001
			US 6238729 B1	29-05-2001
			US 6238485 B1	29-05-2001
			US 2002018623 A1	14-02-2002
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EP 0805365	A	05-11-1997	JP 9288204 A	04-11-1997
			JP 9288205 A	04-11-1997
			JP 9304638 A	28-11-1997
			CA 2202308 A1	19-10-1997
			CA 2319769 A1	19-10-1997
			CA 2319776 A1	19-10-1997
			EP 0805365 A2	05-11-1997
			US 5996375 A	07-12-1999
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JP 08286054	A	01-11-1996	NONE	
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US 6311524	B1	06-11-2001	AU 3434701 A	30-01-2002
			WO 0206875 A1	24-01-2002
<hr/>				

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 57210W0003	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. PCT/US 02/ 35826	International filing date (day/month/year) 07/11/2002	(Earliest) Priority Date (day/month/year) 20/12/2001
Applicant 3M INNOVATIVE PROPERTIES COMPANY		

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- 7 7
☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/35826

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G02B6/16 C03C25/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G02B C03C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX, IBM-TDB, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 146 713 A (CULLEN THOMAS J ET AL) 14 November 2000 (2000-11-14)	1-10,12, 14,17, 20-30
Y	the whole document	11,15,16
Y	--- PATENT ABSTRACTS OF JAPAN vol. 2000, no. 16, 8 May 2001 (2001-05-08) -& JP 2001 013333 A (MITSUBISHI CABLE IND LTD), 19 January 2001 (2001-01-19)	11
A	abstract; figures 1,8	1,28
Y	--- PATENT ABSTRACTS OF JAPAN vol. 006, no. 092 (P-119), 29 May 1982 (1982-05-29) & JP 57 029013 A (FUJIKURA LTD), 16 February 1982 (1982-02-16)	15,16
A	abstract	29,30
	--- -/--	

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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

I later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

31 March 2003

Date of mailing of the international search report

10/04/2003

Name and mailing address of the ISA

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Authorized officer

Wolf, S

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/35826

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03, 31 March 1997 (1997-03-31) -& JP 08 286054 A (SUMITOMO ELECTRIC IND LTD), 1 November 1996 (1996-11-01) abstract; figures 1-3 paragraphs '0035!-'0048! ---	1-30
A	US 6 311 524 B1 (BRENNAN III JAMES F ET AL) 6 November 2001 (2001-11-06) cited in the application column 1, line 1 -column 3, line 25 column 10, line 47 -column 11, line 67; claims 12-26; figures 1-6,9-11 ---	1-30
A	US 4 891 640 A (IP MATTHEW) 2 January 1990 (1990-01-02) the whole document -----	7-9, 22-27

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/35826

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6146713	A	14-11-2000	AU 3772400 A	09-10-2000
			EP 1163546 A1	19-12-2001
			WO 0057225 A1	28-09-2000
			US 6327406 B1	04-12-2001
			US 6238729 B1	29-05-2001
			US 6238485 B1	29-05-2001
			US 2002018623 A1	14-02-2002
JP 2001013333	A	19-01-2001	WO 0101174 A1	04-01-2001
JP 57029013 3	A		NONE	
JP 08286054 3	A		NONE	
US 6311524	B1	06-11-2001	AU 3434701 A	30-01-2002
			WO 0206875 A1	24-01-2002
US 4891640	A	02-01-1990	NONE	